



Features:

- Communication Protocol: Modbus RTU
- Communication Speed:
From 1200 to 115.2 kbps
- Direct Sensor Input:
J, K, T, E, R, S, B, N
- Input Impedance:
Voltage: 2 MΩ
Current: 120 Ω

Introduction

DAM1R-08103 & DAM1R-16104, 8 and 16 channels voltage / current / thermocouple analog input module with high common mode voltage protection.

Specifications

Model Name	DAM1R-08103 (8-Channel) & DAM1R-16104 (16-Channel)	
Analog Input		Communication
Voltage Range	±100mV, ±500mV, ±1V, ±5V, ±10V, 0-100mV, 0-500mV, 0-1V, 0-5V, 0-10V	Protocol: Modbus RTU
Current Range	± 20 mA, 4-20 mA, 0-20 mA (Slide Switch Select)	Speed: From 1200-115.2k bps Distance: 1.2 km at 9.6 kbps
Direct Sensor Input	J, K, T, E, R, S, B, N	Environmental Temperature: -25 to +70 °C (Operating) -30 to +75 °C (Storage) Humidity: Operating Relative Humidity: 10% to 90% (non-condensing)
Burn-out Detection	Yes (all V, 4 ~ 20 mA & all T/C)	
Sampling Rates	12 Samples / Second (Total)	
Resolution	16-bit	
Accuracy	± 0.1% FSR	Dimensions LED Indicators: PWR, Comm, Program , Status Weight: 65g (Average) Dimension: 47mm x 121mm x 120mm
Input Impedance	Voltage: 2 MΩ, Current: 120 Ω	
Span Drift	± 25 ppm/°C	
Zero Drift	± 6 μV/°C	
Input Voltage Protection	± 240V for Voltage Mode (Exclude ± 100 mV, 0-100 mV)	Ordering Information DAM1R-08103 8 universal analog inputs module (voltage / current / thermocouple) DAM1R-16104 16 universal analog inputs module (voltage / current / thermocouple)
Common Mode Voltage	240 V	
Channel Independent Configuration	Yes	
General		
Interface	RS-485	
Power Consumption	1.6W @ 24 VDC 2.8W @ 24 VDC	
Power Requirement	10 – 60 VDC	
Watchdog Timer	System (1.6 Second Fixed)	
Intra-Module Isolation, Field-to-Logic	2500 VDC	